

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:15:09 ON 16 NOV 2005

=> d his ful

FILE 'HCAPLUS' ENTERED AT 08:09:33 ON 16 NOV 2005

L1 12 SEA ABB=ON PLU=ON OLECH L?/AU
D SCAN TI
L2 1 SEA ABB=ON PLU=ON L1 AND CARRIER/TI
D SCAN
D ALL
SEL RN

FILE 'REGISTRY' ENTERED AT 08:11:18 ON 16 NOV 2005

L3 3 SEA ABB=ON PLU=ON (2440-60-0/BI OR 4067-16-7/BI OR
617-52-7/BI)
D SCAN
ACT BAR061/Q

L4 STR

L5 SCR 1838 OR 1918 OR 1929 OR 2016 OR 2021
L6 50 SEA SSS SAM L4 NOT L5
L7 QUE ABB=ON PLU=ON L4 NOT L5
L8 STR L4
L9 50 SEA SSS SAM L8 NOT L5
D QUE STAT L6
L10 QUE ABB=ON PLU=ON L4 NOT L5

FILE 'LREGISTRY' ENTERED AT 08:44:25 ON 16 NOV 2005

L11 STR L4
L12 STR L4
L13 STR L4

FILE 'REGISTRY' ENTERED AT 08:53:06 ON 16 NOV 2005

L14 81980 SEA SSS FUL L4 NOT L5
L15 0 SEA SUB=L14 SSS SAM L11
L16 50 SEA SUB=L14 SSS SAM L12
L17 50 SEA SUB=L14 SSS SAM L13
D QUE STAT L15
D QUE STAT L16
D QUE STAT L17
L18 STR
L19 50 SEA SUB=L14 SSS SAM L18
L20 26595 SEA SUB=L14 SSS FUL L18

FILE 'HCAPLUS' ENTERED AT 09:38:27 ON 16 NOV 2005

L21 8774 SEA ABB=ON PLU=ON L20
L22 0 SEA ABB=ON PLU=ON L21 (L) AMPHOLYT?
L23 0 SEA ABB=ON PLU=ON L21 AND AMPHOLYT?
L24 56 SEA ABB=ON PLU=ON L21 AND ISOELEC?
L25 31 SEA ABB=ON PLU=ON L21 AND ISOELEC? (2A) FOCUS?
L26 0 SEA ABB=ON PLU=ON L25 AND (PLASTIC? OR POLYMER?)/SC,S
X
D L25 HITSTR
L27 0 SEA ABB=ON PLU=ON L25 AND HIGH (3A) PH
L28 3 SEA ABB=ON PLU=ON L25 AND PH
D SCAN HIT
L29 105 SEA ABB=ON PLU=ON L21 AND (PLASTIC? OR POLYMER?)/SC,S
X

L30 0 SEA ABB=ON PLU=ON L29 AND ISOELEC?
L31 2 SEA ABB=ON PLU=ON L29 AND AMPHO?
D SCAN
L32 1 SEA ABB=ON PLU=ON L25 AND AMPHO?
D SCAN
D HIT
L33 4 SEA ABB=ON PLU=ON L21(L) BUFFER?
D SCAN HIT
L34 1459 SEA ABB=ON PLU=ON L21(L) PREP/RL
L35 9 SEA ABB=ON PLU=ON L34 AND PLASTIC?/SC
D SCAN
L36 15 SEA ABB=ON PLU=ON L34 AND PLASTIC?/SC, SX
D HITSTR
D HITSTR 2
D HITSTR 3

FILE 'LREGISTRY' ENTERED AT 10:25:31 ON 16 NOV 2005

L37 STR L18

FILE 'REGISTRY' ENTERED AT 10:35:17 ON 16 NOV 2005

L38 50 SEA SUB=L14 SSS SAM L37

DIS SIA L37

D QUE STAT L38

L39 8524 SEA SUB=L14 SSS FUL L37

FILE 'HCAPLUS' ENTERED AT 10:41:12 ON 16 NOV 2005

L40 3407 SEA ABB=ON PLU=ON L39

L41 527 SEA ABB=ON PLU=ON L40(L) PREP/RL

L42 2 SEA ABB=ON PLU=ON L41 AND PLASTIC?/SC, SX

D SCAN

L43 3 SEA ABB=ON PLU=ON L40 AND AMPHO?

D SCAN HIT

L44 8 SEA ABB=ON PLU=ON L40 AND ISOELEC (3A) FOCUS?

D SCAN HIT

L45 4 SEA ABB=ON PLU=ON L40 AND PLASTIC?/SC, SX

D SCAN TI

L46 49 SEA ABB=ON PLU=ON L40 AND BUFFER?

D HIT

L47 2 SEA ABB=ON PLU=ON L46 AND (PLASTIC? OR POLYMER?)/SC, S

X

L48 15 SEA ABB=ON PLU=ON L36 OR L42

D SCAN L43 TI

D SCAN L25 TI

D QUE STAT L40

L49 9 SEA ABB=ON PLU=ON L40 AND POLYMER?/SC, SX

D SCAN TI

D SCAN L28 TI

FILE 'LREGISTRY' ENTERED AT 11:22:53 ON 16 NOV 2005

L50 STR L37

FILE 'REGISTRY' ENTERED AT 11:31:24 ON 16 NOV 2005

L51 33 SEA SUB=L14 SSS SAM L50

D QUE STAT L51

FILE 'LREGISTRY' ENTERED AT 11:39:25 ON 16 NOV 2005

L52 STR L50

FILE 'REGISTRY' ENTERED AT 11:41:10 ON 16 NOV 2005

L53 15 SEA SUB=L14 SSS SAM L52

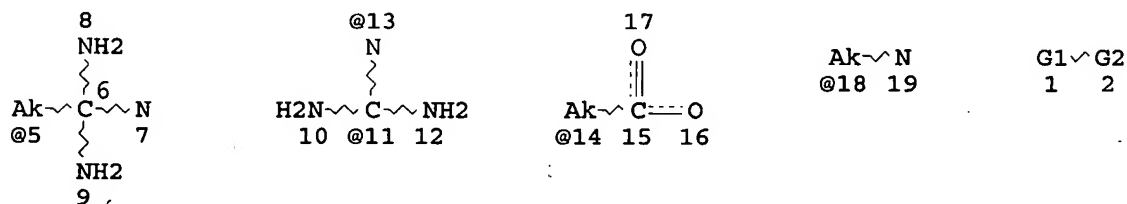
L54 D QUE STAT L53
 L55 SCR 1995
 13 SEA SUB=L14 SSS SAM L52 AND L54
 D SCAN
 D QUE STAT L55
 L56 220 SEA SUB=L14 SSS FUL L52 AND L54
 SAV L56 BAR061A/A
 SAV L39 BAR061B/A
 SAV L20 BAR061C/A

FILE 'HCAPLUS' ENTERED AT 12:00:23 ON 16 NOV 2005

L57 137 SEA ABB=ON PLU=ON L56
 L58 9 SEA ABB=ON PLU=ON L57 AND AMPHO?
 L59 0 SEA ABB=ON PLU=ON L58 AND (PLASTIC? OR POLYMER?)/SC,S
 X
 L60 22 SEA ABB=ON PLU=ON L57 AND (PLASTIC? OR POLYMER?)/SC,S
 X
 L61 0 SEA ABB=ON PLU=ON L60 AND ISOELEC?
 L62 0 SEA ABB=ON PLU=ON L60 AND PH
 L63 18 SEA ABB=ON PLU=ON L57 AND PH
 L64 0 SEA ABB=ON PLU=ON L63 AND (PLASTIC? OR POLYMER?)/SC,S
 X
 L65 37 SEA ABB=ON PLU=ON L22 OR L23 OR L26 OR L27 OR L30 OR
 L48 OR L59 OR L60 OR L61 OR L62 OR L64

=> d que 165

L4 STR



$$\begin{array}{c}
 \text{O} \sim \text{C} \sim \text{O} \\
 20 \quad @21 \quad @22
 \end{array}$$

$$\begin{array}{c}
 \text{Ak} \sim \text{G1} \\
 23 \quad 24
 \end{array}$$

VAR G1=N/21/22/11/13

VAR G2=5/14/18

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 5

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 18

CONNECT IS E2 RC AT 23

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

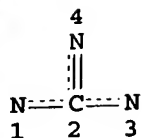
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L5 SCR 1838 OR 1918 OR 1929 OR 2016 OR 2021

L14 81980 SEA FILE=REGISTRY SSS FUL L4 NOT L5
L18 STR

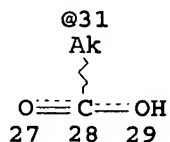
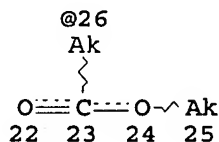
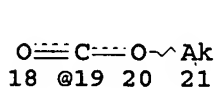
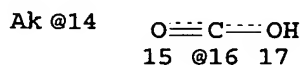
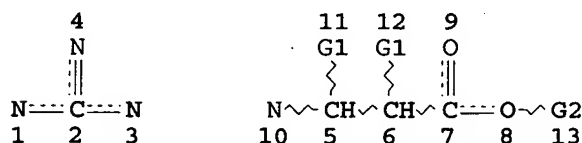


NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE

L20 26595 SEA FILE=REGISTRY SUB=L14 SSS FUL L18
L21 8774 SEA FILE=HCAPLUS ABB=ON PLU=ON L20
L22 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 (L) AMPHOLYT?
L23 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND AMPHOLYT?
L25 31 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND ISOELEC? (2A) FO
CUS?
L26 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND (PLASTIC? OR
POLYMER?)/SC,SX
L27 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND HIGH(3A) PH
L29 105 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (PLASTIC? OR
POLYMER?)/SC,SX
L30 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND ISOELEC?
L34 1459 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 (L) PREP/RL
L36 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND PLASTIC?/SC,SX
L37 STR



VAR G1=H/14/16/19/31/26

VAR G2=H/14

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1-X4 C AT 14
ECOUNT IS M1-X4 C AT 21
ECOUNT IS M1-X4 C AT 25
ECOUNT IS M1-X4 C AT 26
ECOUNT IS M1-X4 C AT 31

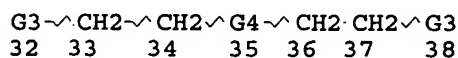
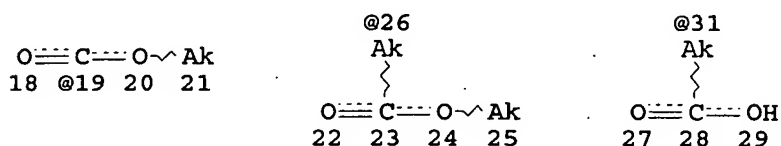
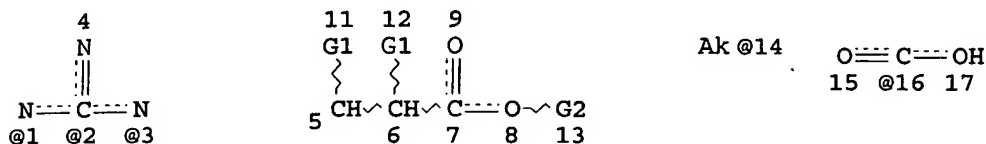
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L39 8524 SEA FILE=REGISTRY SUB=L14 SSS FUL L37
L40 3407 SEA FILE=HCAPLUS ABB=ON PLU=ON L39
L41 527 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 (L) PREP/RL
L42 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 AND PLASTIC?/SC, SX

L48 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L42
L52 STR



VAR G1=H/14/16/19/31/26
VAR G2=H/14
VAR G3=N/1/2
VAR G4=N/1-34 2-36/2-34 1-36/1-34 3-36

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X4 C AT 14

ECOUNT IS M1-X4 C AT 21

ECOUNT IS M1-X4 C AT 25

ECOUNT IS M1-X4 C AT 26

ECOUNT IS M1-X4 C AT 31

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L54 SCR 1995
L56 220 SEA FILE=REGISTRY SUB=L14 SSS FUL L52 AND L54
L57 137 SEA FILE=HCAPLUS ABB=ON PLU=ON L56
L58 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND AMPHO?
L59 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND (PLASTIC? OR
POLYMER?)/SC, SX
L60 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND (PLASTIC? OR
POLYMER?)/SC, SX
L61 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND ISOELEC?
L62 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND PH
L63 18 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND PH
L64 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L63 AND (PLASTIC? OR
POLYMER?)/SC, SX

L65

37 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 OR L23 OR L26 OR
L27 OR L30 OR L48 OR L59 OR L60 OR L61 OR L62 OR L64

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 12:15:27 ON 16 NOV 2005
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FILE LAST UPDATED: 15 Nov 2005 (20051115/ED)

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=> d l65 1-37 ibib abs hitstr hitind

L65 ANSWER 1 OF 37 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:1048815 HCAPLUS

DOCUMENT NUMBER: 143:327403

TITLE: Heat-resistant epoxy resin compositions
containing aliphatic or alicyclic polyamine
borates and copper-clad laminates using the
same

INVENTOR(S): Obayashi, Akira; Haraguchi, Kazutoshi

PATENT ASSIGNEE(S): Kawamura Institute of Chemical Research, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005264106	A2	20050929	JP 2004-82476	2004 0322

PRIORITY APPLN. INFO.: JP 2004-82476

2004
0322

AB The composition with improved glass transition temperature, good storage stability and heat resistance, comprises (A) an epoxy resin, (B) a aliphatic or alicyclic polyamine borate, and (C) a epoxy resin curing